

Position switch, 2 N/C, rounded plunger

Part no. LS-S02 Article no. 106729



Catalog No. LS-S02

Delivery programme

Basic function Part group reference Product range Protection type Pratection type Peatures Ambient temperature Contacts N/C = Normally closed Notes Contact sequence Contact rawe = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Enclosure covers Enclosure covers Connection type Housing Connection type Positive opening (ZW) Positi	Delivery programme		
Product range Protection type	Basic function		
Protection type Features Ambient temperature Contacts NC = Normally closed Notes Contact sequence Contact trave Contact trave Contact trave Enclosure covers Housing Housing P66, P67	Part group reference		LS(M)
Basic device, expandable	Product range		Rounded plunger
Ambient temperature Contacts N/C = Normally closed Notes Notes Contact sequence Contact sequence Contact travel = Contact closed = Contact open Positive opening [ZW) Enclosure covers Enclosure covers Housing Housing	Protection type		IP66, IP67
Contact rave = Contact closed = Contact open Positive opening (ZW) Enclosure covers Enclosure covers Housing Notes	Features		Basic device, expandable
N/C = Normally closed Notes © = safety function, by positive opening to IEC/EN 60947-5-1 Contact sequence Contact trave = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Enclosure covers Housing Housing	Ambient temperature	°C	-25 - +70
Notes Description Notes Sequence Contact sequence Contact trave = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Enclosure covers Housing Insulated material	Contacts		
Contact travel = Contact closed = Contact open Contact travel = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Finclosure covers Housing Housing	N/C = Normally closed		2 NC →
Contact travel = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Enclosure covers Housing Insulated material	Notes		e safety function, by positive opening to IEC/EN 60947-5-1
Positive opening (ZW) Colour Enclosure covers Enclosure covers Housing Insulated material	Contact sequence		0
Colour Enclosure covers Enclosure covers Housing Yellow Insulated material	Contact travel = Contact closed = Contact open		11-12 WC 21-12 WC
Enclosure covers Enclosure covers Housing Yellow Insulated material	Positive opening (ZW)		yes
Enclosure covers Housing Insulated material	Colour		
Housing Insulated material	Enclosure covers		Yellow
	Enclosure covers		
Connection type Screw terminal	Housing		Insulated material
	Connection type		Screwterminal

Approvals

Product Standards
UL File No.
UL Category Control No.
CSA File No.
CSA Class No.
North America Certification
Degree of Protection

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking E29184 NKCR 12528 3211-03 UL listed, CSA certified IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

General

Gonorai		
Standards		IEC/EN 60947
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature	°C	-25 - +70
Mounting position		As required
Protection type		IP66, IP67
Terminal capacities	mm ²	

Solid		mm ²	1 x (0.5 - 2.5)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5)
Contacts/switching capacity		111111	
Rated impulse withstand voltage	U _{imp}	V	4000
		AC	
Rated insulation voltage	Ui	V	400
Overvoltage category/pollution degree			III/3
Rated operational current	l _e	Α	
AC-15			
24 V	l _e	Α	6
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	4
DC-13			
24 V	l _e	Α	3
110 V	l _e	Α	0.6
220 V	I _e	Α	0.3
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probab	
at 5 V DC/1 mA	H _F	Fault probab	$< 10^{-6}$, < 1 failure at 5 x 10^{6} operations
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/ gL	6
Repetition accuracy		mm	0.15
Rated conditional short-circuit current		kA	1
Mechanical variables			
Lifespan, mechanical	Operations	x 10 ⁶	8
Contact temperature of roller head		°C	≦ ₁₀₀
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Operating frequency	Operations/ h		≦ ₆₀₀₀
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	1.0/8.0
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1/0.5

Technical data ETIM 5.0

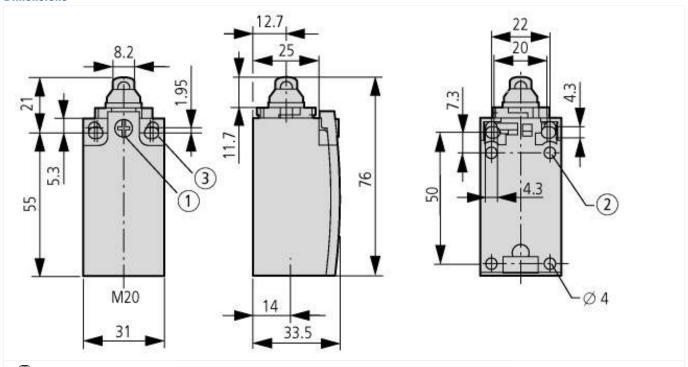
Notes

Sensors (EG000026) / End switch (EC000030)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8-27-27-06-01 [AGZ382011])			
Width sensor	mm	31	
Diameter sensor	mm	0	
Height of sensor	mm	61	
Length of sensor	mm	33.5	
Rated operation current le at AC-15, 24 V	А	6	
Rated operation current le at AC-15, 125 V	А	6	
Rated operation current le at AC-15, 230 V	А	6	
Rated operation current le at DC-13, 24 V	А	3	
Rated operation current le at DC-13, 125 V	А	0.8	
Rated operation current le at DC-13, 230 V	А	0.3	

for angle of actuation α = 0°/30°

Switching function		Slow-action switch
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		2
Number of contacts as normally closed contact		2
Number of contacts as normally open contact		0
Number of contacts as change-over contact		0
Type of interface		None
Type of interface for safety communication		None
Housing according to norm		-
Construction type housing		Cuboid
Material housing		Plastic
Coating housing		-
Type of control element		Plunger
Alignment of the control element		•
Type of electric connection		•
With status indication		No
Suited for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	-25 - 70
Degree of protection (IP)		IP67

Dimensions



- Tightening torque of cover screws: 0.8 Nm ±0.2 Nm
 only with LS (insulated version)
 Fixing screws 2 x M4
 30
 M_A = 1.5 Nm

